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### **EUROPEAN PATENT APPLICATION**

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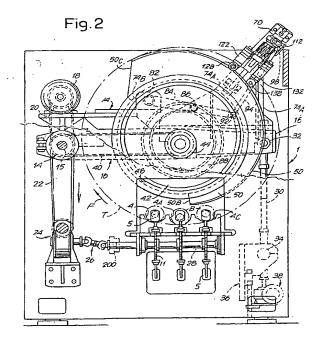
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- (54) Method and machine for cutting rolls of paper and the like.
- The blade (50) has a helicoidal shape with an external cutting edge (50A) having increasing radius and developing over a partial sector, the difference between maximum and minimum radius being at least equal to the maximum diameter of the rolls or logs (B) to be cut. The shaft (45) and the axis of rotation of the blade rotor (42) are not displaced during the rotor's revolution and are slightly inclined with respect to the direction of advancement of the logs within their carriers. Thus the cut performed on the rolls (B) and the cutting edge (50A) will, on the average, be perpendicular to the axes of the rolls (B). The advancement of the roll(s) (B) in the carriers is continuous and the cutting takes place during a portion of each revolution of the rotor and during that portion of the roll's advancement which corresponds to the axial length of the small rolls to be produced.



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# PARTIAL EUROPEAN SEARCH REPORT

Application Number

which under Rule 45 of the European Patent Convention shall be considered, for the purposes of subsequent proceedings, as the European search report

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	DOCUMENTS CONSID		Relevant	CLASSIFICATION OF THE	
Category	Citation of document with indi of relovant pass	cation, where appropriate,	to claim		
X Y Y	FR-A- 622 332 (UNIVERSELLE CIGARETTENMASCHINEN-FABRIK) * the whole document * GR-A- 247 452 (KOERNER)		1,2 3,5-7 3	B 26 D 3/16 B 26 D 5/22 B 26 D 7/12	
Å	* page 1, line 76 -     figure 4 *	page 2, line 9;	10		
Y A	GB-A- 419 615 (WAR * page 2, line 5 - 1 line 95 - line 120 *	ine 116; page 3,	6,7		
				TECHNICAL FIELDS SEARCHED (Int. CL5)	
				B 26 D B 24 B A 24 C	
The Section out 2 m Claims Claims Claims Reason	omplete search  arch Division considers that the present visions of the European Patent Conventi- eaningful search into the state of the arc searched completely: not searched: 16 for the limitation of the search:  e claim 16 is miss	on to such an extent that his act	s	n	
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Y:	CATEGORY OF CITED DOCUMENTS  X: particularly relevant if taken alone Y: particularly relevant if combined with another document of the same category A: technological background O: non-written disclosure C: theory or principle underlying the inveation E: earlier patent detenment, but published on, or after the filling date D: document cited in the application L: document cited for other reasons A: member of the same patent family, corresponding C: member of the same patent family, corresponding document				

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CLAIMS INCURRING FEES					
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The present European patent application comprised at the time of filing more than ten claims.					
	All claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for all claims.				
	Only part of the claims fees have been paid within the prescribed time limit. The present European search				
_	report has been drawn up for the first ten claims and for those claims for which claims fees have been paid,				
	namely claims:				
	No claims fees have been paid within the prescribed time limit. The present European search report has been				
	drawn up for the first ten claims.				
1 4	CK OF UNITY OF INVENTION				
	Division considers that the present European patent application does not comply with the requirement of unity of				
	nd relates to several inventions or groups of inventions,				
namely:					
see	sheet -B-				
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X	All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.				
	Only part of the further search fees have been paid within the fixed time limit. The present European search				
اسا	report has been drawn up for those parts of the European patent application which relate to the Inventions in				
	respect of which search fees have been paid,				
	namely claims:				
	None of the further search fees has been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first				
	mentioned in the claims.				
	namely claims:				

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## PARTIAL EUROPEAN SEARCH REPORT Application Number

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	DOCUMENTS CONSIDERED TO BE RELEVAN		APPLICATION (Int. Cl. 5)	
ategory	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim		
Υ	US-A-1 909 029 (WALTER)	6		
X	US-A-1 909 029 * page 4, line 23 - line 49; figures 5-7 *	17,18		
A	GB-A-2 181 984 (FINANZIARIA LUCCHESE S.P.A.) * abstract *	4		
A	GB-A-1 581 723 (MOLINS LIMITED) * page 1, line 56 - line 72; figure 1 *	4		
Y	US-A-3 969 966 (DILLON) * column 2, line 25 - column 3, line 45; figures *	5	TECHNICAL FIELDS SEARCHED (Int. Cl.5)	
A	US-E- 32 331 (FULK ET AL.) * abstract *	8,9		
A	DE-U-8 710 211 (SCHINDLER & WAGNER KG)			
Α	US-A-3 213 731 (RENARD)			
A	GB-A- 367 775 (SWIFT AND COMPANY)			
A	US-A-3 499 475 (LONG)			
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#### LACK OF UNITY OF INVENTION A POSTERIORI

The Search Division considers that the present European patent application does not comply with the requirement of unity of invention and relates to several inventions or groups of inventions, namely:

1. Claims 1,2,4-9,17,18 : Rotary blade cutting machine

equipped with a blade having a

helicoidal development.

2. Claims 3,10-15 : Cutting machine including a

radially and axially movable blade-sharpening means.

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